

Jitter Correction for the Coastal Ecosystem Dynamics Imager (COEDI Jitter Correction)

Completed Technology Project (2013 - 2014)



Project Introduction

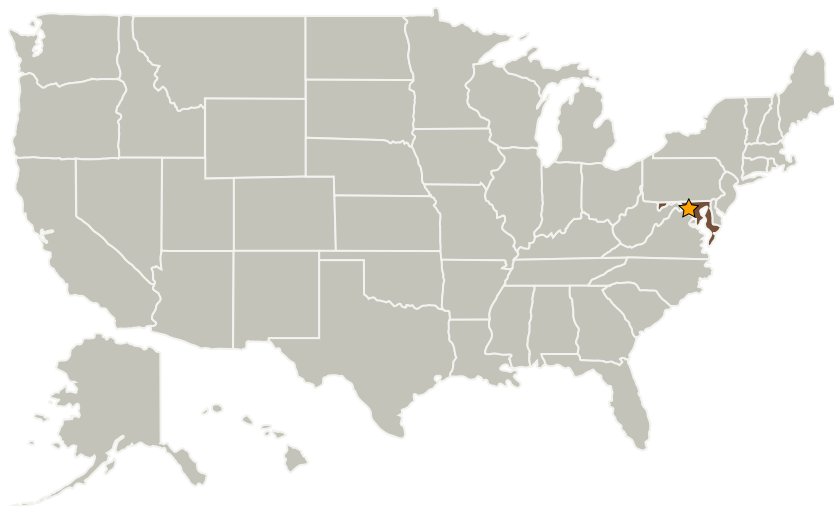
The purpose of this project is to develop an instrument jitter correction system

In this study, we are only addressing the bore-sight changes due to internal instrument motions (tip/tilt). The roll alignment jitter component will need to be monitored and controlled by the S/C platform.

Anticipated Benefits

This begins to correct spacecraft and instrument jitter allowing the COEDI science instrument located in geostationary orbit to meet pointing stability requirements. Other concepts might also be able to use this technique.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Goddard Space Flight Center (GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
SGT, Inc.	Supporting Organization	Industry Small Disadvantaged Business (SDB)	



Jitter Correction for the Coastal Ecosystem Dynamics Imager

Table of Contents

Project Introduction	1
Anticipated Benefits	1
Primary U.S. Work Locations and Key Partners	1
Project Website:	2
Organizational Responsibility	2
Project Management	2
Technology Maturity (TRL)	3
Technology Areas	3

Jitter Correction for the Coastal Ecosystem Dynamics Imager (COEDI Jitter Correction)

Completed Technology Project (2013 - 2014)



Primary U.S. Work Locations

Maryland

Project Website:

<http://sciences.gsfc.nasa.gov/sed/>

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Independent Research & Development: GSFC IRAD

Project Management

Program Manager:

Peter M Hughes

Project Manager:

Terence A Doiron

Principal Investigator:

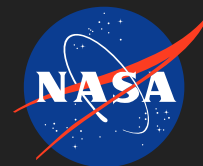
Catherine T Marx

Co-Investigator:

Antonio Mannino

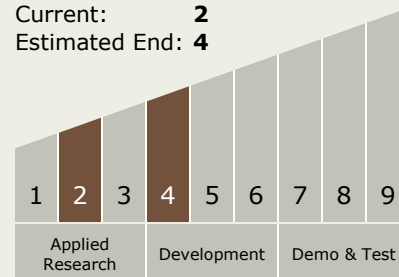
Jitter Correction for the Coastal Ecosystem Dynamics Imager (COEDI Jitter Correction)

Completed Technology Project (2013 - 2014)



Technology Maturity (TRL)

Start: 2
Current: 2
Estimated End: 4



Technology Areas

Primary:

- TX08 Sensors and Instruments
 - └ TX08.2 Observatories
 - └ TX08.2.1 Mirror Systems